

REMARKS

The Applicant has amended the claims as indicated to more clearly recite the claimed subject matter contained therein. The Applicant believes that no new matter has been introduced in the amendments to the claims. Early and favorable consideration with respect to this application is respectfully requested.

Should any questions arise in connection with this application, the undersigned respectfully requests that he be contacted at the number indicated below.

Respectfully submitted,
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Attachment to Preliminary Amendment dated October 8, 2002

Marked-up Claims 1-6

1. (Amended) A dynamic structural dimple panel, comprising:

a dimple layer having a plurality of dimples extending from one side of the dimple layer, said dimples being spaced from one another and not touching, said [dimples] dimple layer absorbing, storing, dissipating or distributing energy to make said dimple layer compliant; and

a reinforcing layer being configured to connect with the dimples of the dimple layer, said reinforcing layer connected to said dimple layer by said dimples, the compliance of said dimple layer accommodating loading of said panel to distribute stresses placed on the connection of said dimples[, wherein at least one of the dimples has a passage therethrough].

2. (Amended) A dynamic structural dimple panel, comprising:

a dimple layer having a plurality of dimples extending from one side of the dimple layer, said dimples being spaced from one another and not touching, said [dimples] dimple layer absorbing, storing, dissipating or distributing energy to make said dimple layer compliant; and

a reinforcing layer being configured to connect with the dimples of the dimple layer, said reinforcing layer connected to said dimple layer by said dimples, the compliance of said dimple layer accommodating loading of said panel to distribute stresses placed on the connection of said dimples, [wherein at least one of the dimples has a passage therethrough and wherein the portion of the dimple forming the passage] said dimple layer being [is of] a

Attachment to Preliminary Amendment dated October 8, 2002

Marked-up Claims 1-6

memory material which allows [the] a size of [the] a passage and/or [the] a distance between the reinforcing layer and the dimple layer [layers] to be changed when the memory material undergoes a change in temperature.

3. (Amended) A dynamic structural dimple panel, comprising:

a dimple layer having a plurality of dimples extending from one side of the dimple layer, said dimples being spaced from one another and not touching, said [dimples] dimple layer absorbing, storing, dissipating or distributing energy to make said dimple layer compliant;

a reinforcing layer being configured to connect with the dimples of the dimple layer, said reinforcing layer connected to said dimple layer by said dimples, the compliance of said dimple layer accommodating loading of said panel to distribute stresses placed on the connection of said dimples; and

strand material routed through said layers to mechanically interlock the layers.

4. (Amended) A dynamic structural dimple panel, comprising:

a dimple layer having a plurality of dimples extending from one side of the dimple layer, said dimples being spaced from one another and not touching, said [dimples] dimple layer absorbing, storing, dissipating or distributing energy to make said dimple layer compliant; and

Attachment to Preliminary Amendment dated October 8, 2002

Marked-up Claims 1-6

a reinforcing layer being configured to connect with the dimples of the dimple layer, said reinforcing layer connected to said dimple layer by said dimples, the compliance of said dimple layer accommodating loading of said panel to distribute stresses placed on the connection of said dimples, wherein at least one of the dimples has an opening therethrough and at least one of the reinforcing layers includes an extension extending through the opening.

5. (Amended) A multilayer dimple panel, comprising:

a dimple layer having a plurality of first dimples extending from a first side thereof and a plurality of second dimples extending from a second side thereof, the first and second dimples being misaligned from one another and non-touching, said dimple layer being compliant;

a first reinforcing layer connected to said dimple layer; and

a second reinforcing layer connected to said dimple layer, the compliance of said dimple layer accommodating loading of said multilayer dimple panel to distribute stresses placed on the connection of said dimples[, wherein at least one of the dimples has a passage therethrough].

6. (Amended) A multilayer dimple panel, comprising:

a dimple layer having a plurality of first dimples extending from a first side thereof and a plurality of second dimples extending from a second side thereof, the first and second

Attachment to Preliminary Amendment dated October 8, 2002

Marked-up Claims 1-6

dimples being misaligned from one another and non-touching, said dimple layer being compliant;

a first reinforcing layer connected to said dimple layer; and

a second reinforcing layer connected to said dimple layer, the compliance of said dimple layer accommodating loading of said multilayer dimple panel to distribute stresses placed on the connection of said dimples, [wherein at least one of the dimples has a passage therethrough wherein the portion of the dimple forming the passage] said dimple layer being [is of] a memory material which allows [the] a size of [the] a passage and/or [the] a distance between both the first and second reinforcing layers and the dimple layer to be changed when the memory material undergoes a change in temperature.